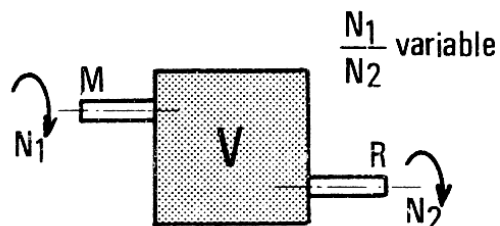


# Variable Speed Drives

SJEMDP361VSD

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## Principle of Variable Speed Drives



Variable Speed Drives (VSD) are a new generation rated for: High powers and offers competition to gearing in the automobile industry and other applications.

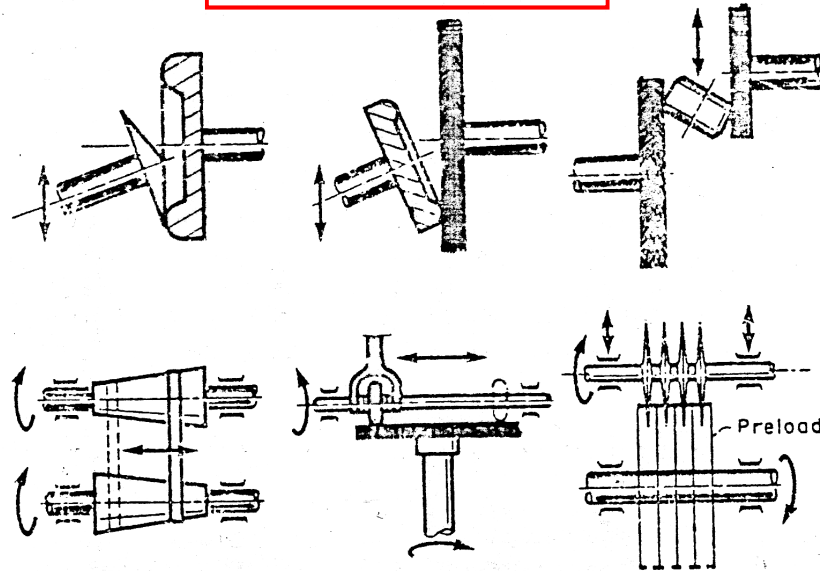
### Applications of Variable Speed Drives:

1. Snow mobiles: Cars specially designed for snowy roads. They need a transmission that responds immediately to changes in load and speed.
2. Sport motorcycles.
3. Volvo cars: in some versions where belts are used instead of gears.
4. Agricultural equipment.

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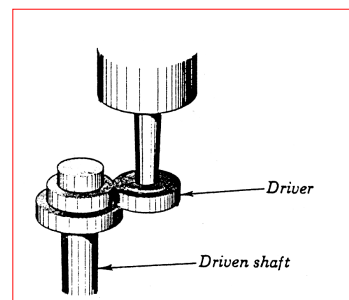
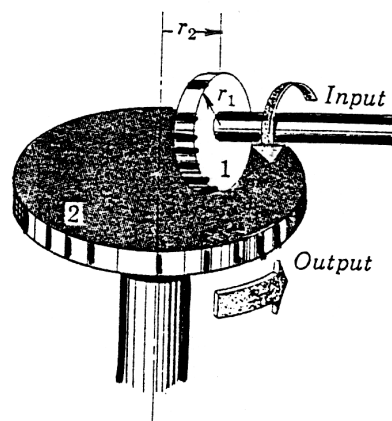
2

## General Drives



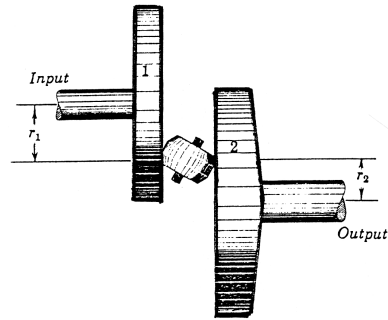
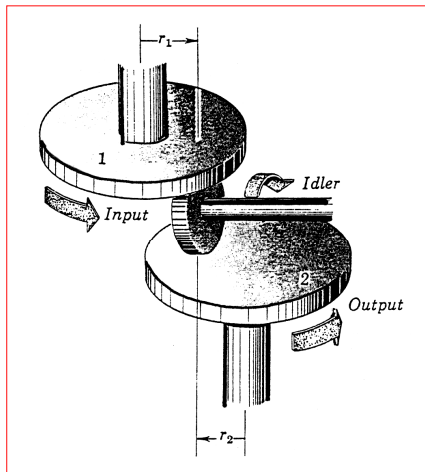
SJEMDP361VSD

## Disk Drive



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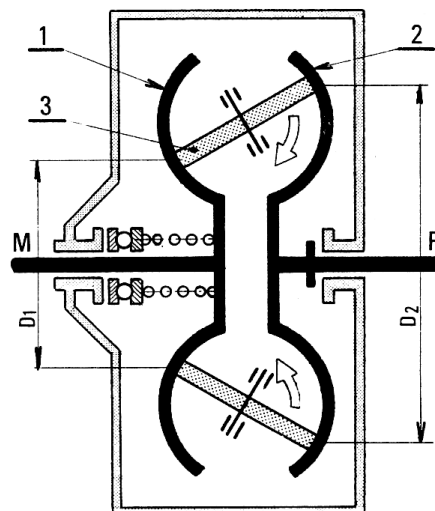
### “Two Discs & One Roller” Drive



SJEMDP361VSD

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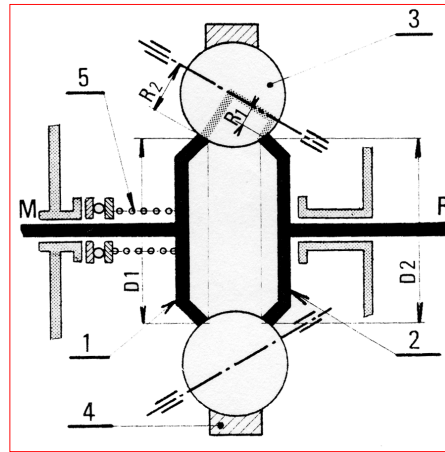
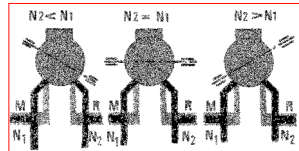
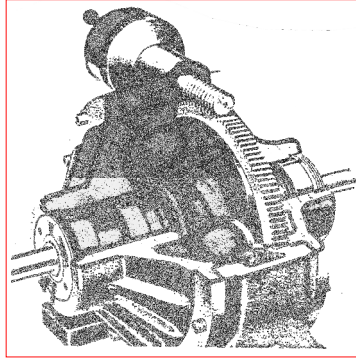
### Spherical Disc Drive



SJEMDP361VSD

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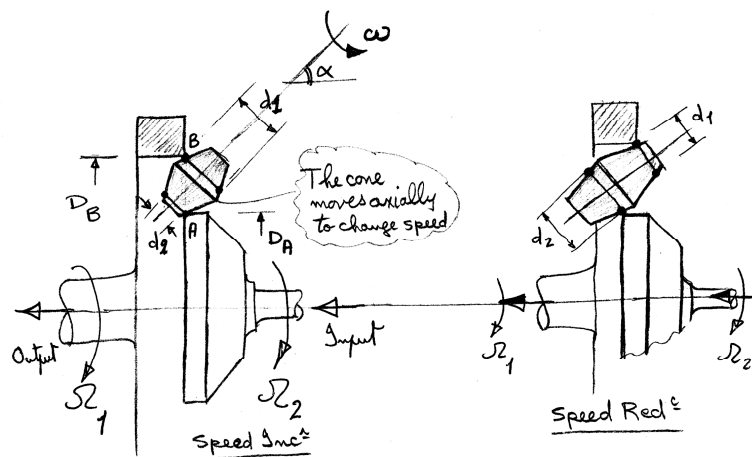
## Tilting Ball Drive



SJEMDP361VSD

v

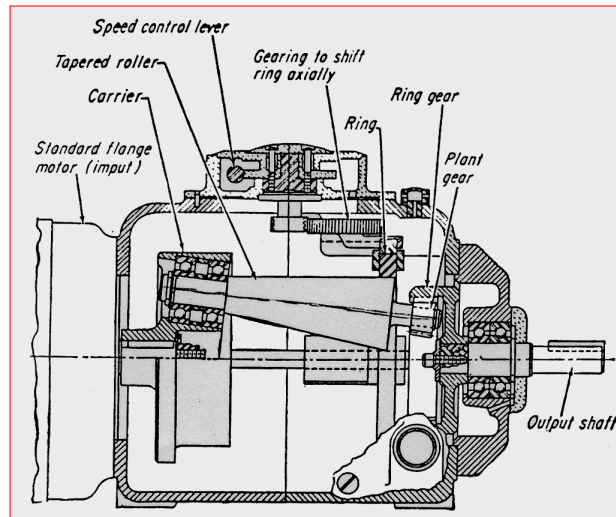
## Tilting Cone Drive



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## Graham Variable Speed Drive

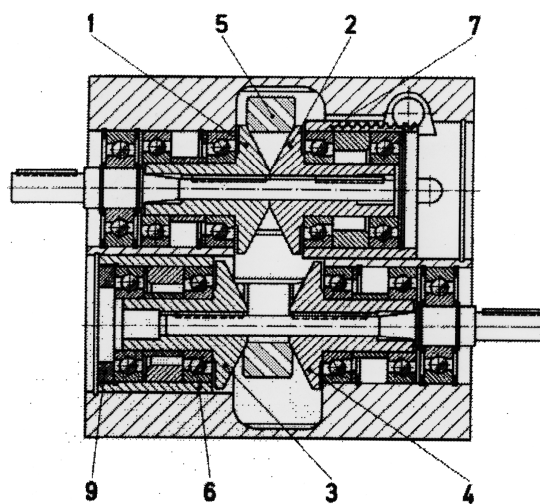
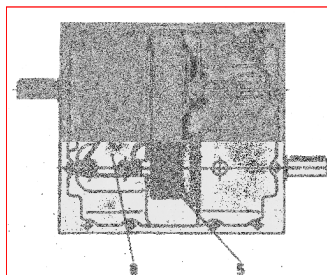


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## Heynau Drive

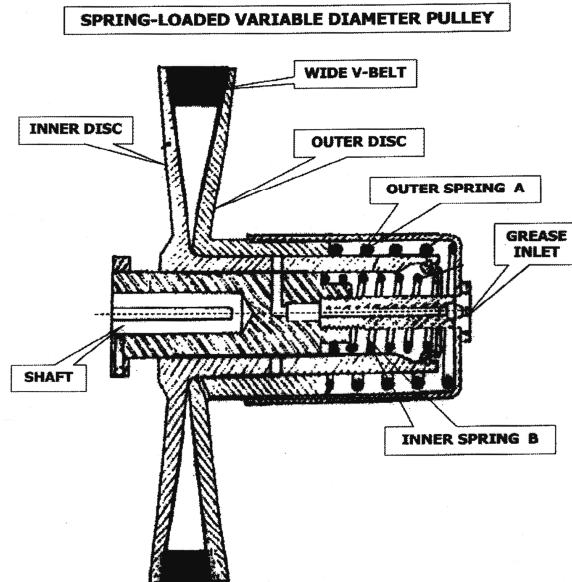
When load is applied, the transmission ring is pulled into the triangle formed by the cone pairs within the range of the parts under load.



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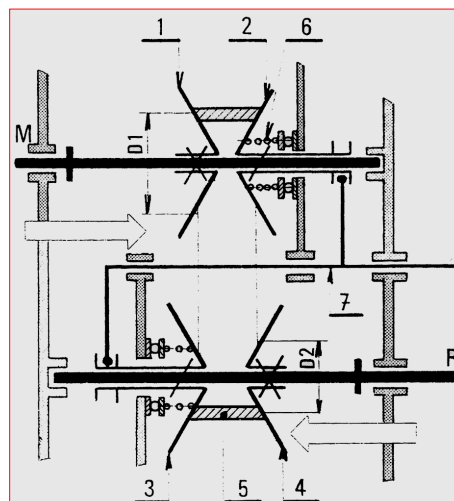
10

## Variable Diameter Pulley



11

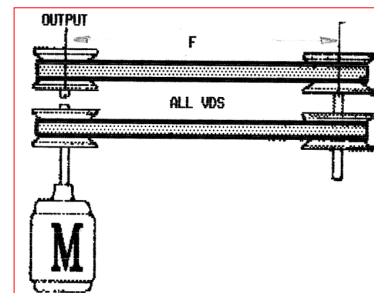
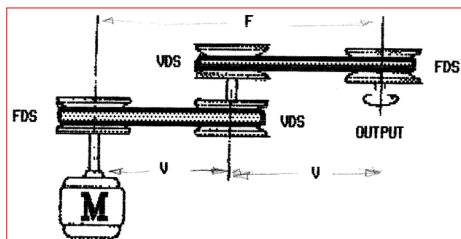
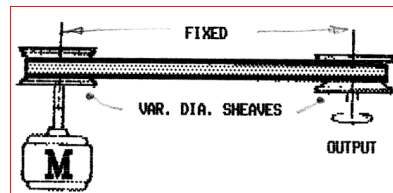
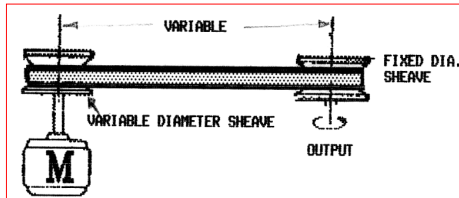
## Variable Diameter Pulley



SJEMDP361VSD

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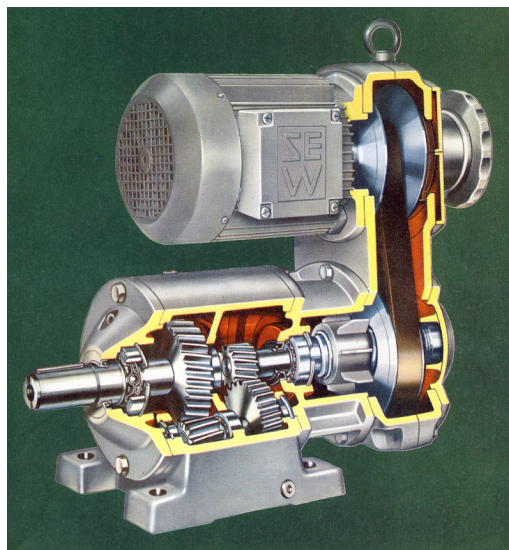
## Variable Speed Belt Drives



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## Variable Speed Motor



20 November 2010

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